

6. Medium Voltage Power Cable

Click here
for
Table of Contents

Click the
BICC logo
above to return
to the
Section Index

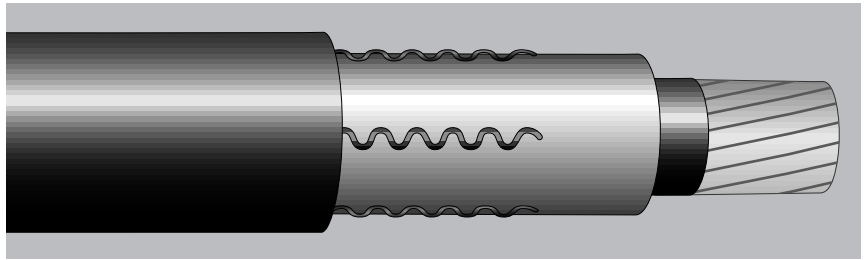
6. Medium Voltage Power Cable

PRODUCT	INSULATION	JACKET	PAGE
UniShield®	EPR.....	CPE	6.01-6.03
5kV – 35kV, MV-105			
Uniblend®	EPR.....	HYP	6.04-6.06
5kV – 35kV, MV-105			
Uniblend®	EPR.....	LSZH.....	6.07
5kV – 35kV, MV-105			
Uniblend®	EPR.....	PVC	6.08-6.10
5kV – 35kV, MV-105			
Uniblend®	EPR.....	PVC	6.11-6.13
(3 Conductor)			
5kV – 35kV, MV-105			
DuraSheath®	EPR.....	HYP	6.14-6.15
5kV, MV-90			
EPR/Lead.....	EPR.....	Lead	6.16-6.18
5kV – 35kV, MV-105			
Vulkene® Shielded	Vulkene.....	PVC	6.19-6.20
5kV & 15kV, MV-90			
Vulkene® Non-Shielded	Vulkene		6.21-6.22
5kV, MV-90			
XLPE/PVC Copper Wire Shield	XLPE	PVC	6.23-6.24
5kV & 15kV, MV-90			

Click the
item that you
wish to view,
and then to
return to this
Table of Contents
click the
BICC logo

Click the
BICC logo
above to return
to the
Section Index

POWER CABLE UL TYPE MV-105 5kV - 35kV EPR/CPE



Description

Conductors:

Annealed bare copper, Anapact™
Compact Class B strand

Sizes:

#2 AWG through 1000 kcmil.
Conductor sizes to #6 AWG for 5kV
rated cables are available upon request.

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting
stress control layer over conductor

Insulation:

Ethylene Propylene Rubber (EPR)
insulation colored to contrast with
black conducting shield layers

Composite Insulation Shield and Jacket:

Six corrugated copper drain wires
embedded in an extruded black
conducting chlorinated polyethylene
(CPE) composite insulation shield
and jacket.

UniShield is manufactured in full
compliance with UL 1072 and ICEA
S-68-516 (NEMA WC-8) and meets
or exceeds the electrical requirements
of AEIC CS6.

**Meets EPA 40 CFR, Part 261 for
leachable lead content per TCLP
method.**

Features and Benefits

Temperature Ratings:

- Normal 105°C
- Emergency 140°C
- Short Circuit 250°C

Acceptable for use in OSHA regulated
installations.

UL listed as Type MV-105 for use
in accordance with the National
Electrical Code.

Sizes #1/0 AWG and larger are also
listed and marked "Sunlight Resistant
For CT Use" in accordance with the
National Electrical Code.

Meets the Following Flame Test:

- IEEE 1202 (70,000 BTU/hr)/
CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)

EPR Insulation Offers These Advantages:

- Excellent heat and moisture
resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant
- Sunlight resistant

UniShield's stress control layers and its
insulation are simultaneously extruded
over a smooth Anapact compact
conductor to form a superior elec-
trode. The dimensional precision and
near-perfect roundness of the conduc-
tor eliminates voids, air pockets,
uneven stress and corona.

The reduced conductor size – 7 to 10
percent smaller than regular class B
round conductors, and shield system –
makes UniShield the smallest premium
medium voltage shielded, jacketed
power cable with full insulation. All
features attribute to the fastest and
easiest to install.

Smaller outside dimensions may
reduce the size of duct needed or
increase the ampacity per duct. For
example, three 500 kcmil 15kV
UniShield cables fit into a 4-inch duct,
while three tape-shielded cables
require a 5-inch duct.

UniShield's bending radius is much
smaller than that of other manufactur-
er's cables (4 to 8 times O.D. vs. 12
times O.D. for tape-shielded cable, per
ICEA). The corrugation of the drain
wires enables UniShield to bend easily
and to withstand bending and twisting
far beyond recommended limits.

UniShield is up to 43% faster than
tape-shielded cable to prepare for
splicing and terminating. Just pull the
"rip cord" drain wires with a pair of
pliers and peel back the jacket. No
longitudinal scoring is needed, which
means no damage to the insulation.

Chlorinated polyethylene (CPE) jack-
ets have excellent moisture, chemical,
sunlight and flame resistance. CPE is a
tough jacketing material easily surviv-
ing severe installation procedures,
including the North Slope in Alaska.

Applications

UniShield EPR has a proven record
of reliable performance. Millions of feet
have been installed in a broad range
of commercial, industrial and utility
projects such as pulp and paper mills,
petrochemical plants, steel mills, textile
mills, water and sewage treatment facil-
ities, environmental protection systems,
railroads, mines and both fossil fuel and
nuclear utility generating stations.

Suitable for use in wet or dry locations
when installed in accordance with the
NEC. for use in aerial, direct burial,
conduit, open tray, and underground
duct installations.

National Electrical Code:

Ampacities Article 310-15
Wiring Methods . . Article 300 & 710
Cable Trays Article 318
Grounding Sizes Article 250-95

Medium Voltage
Cable-Type MV Article 326

EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
5,000 VOLTS* - 133% INSULATION LEVEL (UNGROUNDING)
8,000 VOLTS - 100% INSULATION LEVEL (GROUNDING)

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19101.660200	2 AWG 7/.0974	0.271	0.115	0.542	20	.075	0.712	411
19101.665100	1/0 AWG 19/.0745	0.342	0.115	0.615	20	.075	0.787	563
19101.665200	2/0 AWG 19/.0837	0.384	0.115	0.658	19	.080	0.837	675
19101.665300	3/0 AWG 19/.0940	0.432	0.115	0.708	19	.080	0.889	804
19101.665400	4/0 AWG 19/.1055	0.482	0.115	0.759	19	.080	0.941	961
19101.666000	250kcmil 37/.0822	0.525	0.115	0.813	18	.080	1.006	1122
19101.666200	350kcmil 37/.0973	0.619	0.115	0.909	18	.080	1.105	1476
19101.666500	500kcmil 37/.1162	0.740	0.115	1.034	17	.085	1.241	2015
19101.667000	750kcmil 61/.1109	0.911	0.115	1.219	17	.085	1.483	2893
19101.667500	1000kcmil 61/.1280	1.064	0.115	1.376	16	.100	1.614	3786

EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
15,000 VOLTS - 100% INSULATION LEVEL (GROUNDING)

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19141.660200	2 AWG 7/.0974	0.271	0.175	0.664	19	.080	0.841	501
19141.665100	1/0 AWG 19/.0745	0.342	0.175	0.737	19	.080	0.916	661
19141.665200	2/0 AWG 19/.0837	0.384	0.175	0.780	19	.080	0.960	769
19141.665300	3/0 AWG 19/.0940	0.432	0.175	0.829	18	.080	1.020	917
19141.665400	4/0 AWG 19/.1055	0.482	0.175	0.880	18	.080	1.072	1079
19141.666000	250kcmil 37/.0822	0.525	0.175	0.935	18	.080	1.127	1232
19141.666200	350kcmil 37/.0973	0.619	0.175	1.031	17	.085	1.234	1613
19141.666500	500kcmil 37/.1162	0.740	0.175	1.155	17	.085	1.362	2149
19141.667000	750kcmil 61/.1109	0.911	0.175	1.341	16	.100	1.560	3064
19141.667500	1000kcmil 61/.1280	1.064	0.175	1.497	16	.100	1.721	3936

EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
15,000 VOLTS - 133% INSULATION LEVEL (UNGROUNDING)

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19161.660200	2 AWG 7/.0974	0.271	0.220	0.755	19	.080	0.937	574
19161.665100	1/0 AWG 19/.0745	0.342	0.220	0.828	18	.080	1.021	753
19161.665200	2/0 AWG 19/.0837	0.384	0.220	0.871	18	.080	1.066	867
19161.665300	3/0 AWG 19/.0940	0.432	0.220	0.920	18	.080	1.116	1004
19161.665400	4/0 AWG 19/.1055	0.482	0.220	0.971	18	.080	1.168	1171
19161.666000	250kcmil 37/.0822	0.525	0.220	1.026	17	.085	1.235	1349
19161.666200	350kcmil 37/.0973	0.619	0.220	1.122	17	.085	1.333	1720
19161.666500	500kcmil 37/.1162	0.740	0.220	1.246	17	.085	1.460	2267
19161.667000	750kcmil 61/.1109	0.911	0.220	1.432	16	.100	1.670	3216
19161.667500	1000kcmil 61/.1280	1.064	0.220	1.589	15	.115	1.861	4164

**EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
25,000 VOLTS - 100% INSULATION LEVEL (GROUNDED)**

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19201.675100	1/0 AWG 19/.0745	0.342	0.260	0.909	18	.080	1.105	829
19201.675200	2/0 AWG 19/.0837	0.384	0.260	0.951	18	.080	1.147	943
19201.675300	3/0 AWG 19/.0940	0.432	0.260	1.000	18	.085	1.197	1084
19201.675400	4/0 AWG 19/.1055	0.482	0.260	1.051	17	.085	1.261	1275
19201.676000	250kcmil 37/.0822	0.525	0.260	1.106	17	.085	1.336	1437
19201.676200	350kcmil 37/.0973	0.619	0.260	1.202	17	.085	1.415	1817
19201.676500	500kcmil 37/.1162	0.740	0.260	1.324	16	.100	1.561	2407
19201.677000	750kcmil 61/.1109	0.911	0.260	1.508	16	.100	1.749	3331
19201.677500	1000kcmil 61/.1280	1.064	0.260	1.663	15	.115	1.938	4289

**EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
25,000** VOLTS - 133% INSULATION LEVEL (UNGROUND)**
35,000* VOLTS - 100% INSULATION LEVEL (GROUNDED)**

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19261.685100	1/0 AWG 19/.0745	0.342	0.345	1.081	17	.085	1.291	1027
19261.685200	2/0 AWG 19/.0837	0.384	0.345	1.123	17	.085	1.334	1147
19261.685300	3/0 AWG 19/.0940	0.432	0.345	1.172	17	.085	1.383	1296
19261.685400	4/0 AWG 19/.1055	0.482	0.345	1.224	17	.085	1.437	1477
19261.686000	250kcmil 37/.0822	0.525	0.345	1.278	16	.100	1.514	1685
19261.686200	350kcmil 37/.0973	0.619	0.345	1.374	16	.100	1.612	2079
19261.686500	500kcmil 37/.1162	0.740	0.345	1.496	16	.100	1.738	2654
19261.687000	750kcmil 61/.1109	0.911	0.345	1.680	15	.115	1.955	3669
19261.687500	1000kcmil 61/.1280	1.064	0.345	1.835	15	.115	2.114	4591

**EPR/CPE SHIELDED POWER CABLE - UL TYPE MV-105 UNISHIELD®
35,000 VOLTS - 133% INSULATION LEVEL (UNGROUND)**

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Insulation Thickness (inches)	Diameter Over Insulation (inches)	Drain Wire Size	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft.)
19291.695100	1/0 AWG 19/.0745	0.342	0.420	1.230	17	.085	1.447	1208
19291.695200	2/0 AWG 19/.0837	0.384	0.420	1.270	17	.085	1.509	1361
19291.695300	3/0 AWG 19/.0940	0.432	0.420	1.320	17	.085	1.559	1517
19291.695400	4/0 AWG 19/.1055	0.482	0.420	1.380	17	.085	1.613	1706
19291.696000	250kcmil 37/.0822	0.525	0.420	1.430	16	.100	1.668	1893
19291.696200	350kcmil 37/.0973	0.619	0.420	1.530	16	.100	1.797	2350
19291.696500	500kcmil 37/.1162	0.740	0.420	1.650	16	.100	1.923	2944
19291.697000	750kcmil 61/.1109	0.911	0.420	1.830	15	.115	2.111	3937

Print: SIZE (AWG OR KCMIL) COMPACT CU BICC CABLES UNISHIELD EP (INSULATION THICKNESS) MILS DRTP SEMI-CON CPE JKT (VOLTAGE)
KV% INSULATION LEVEL TYPE MV-105 SUN RES FOR CT USE (UL) month-year of manufacture

NOTE: a) Sizes smaller than 1/0 do not include "FOR CT USE"
b) The NEC lightning bolt symbol is on all UniShield constructions.

* Conductor sizes to 6 AWG are available on request.

** Part number available on request.

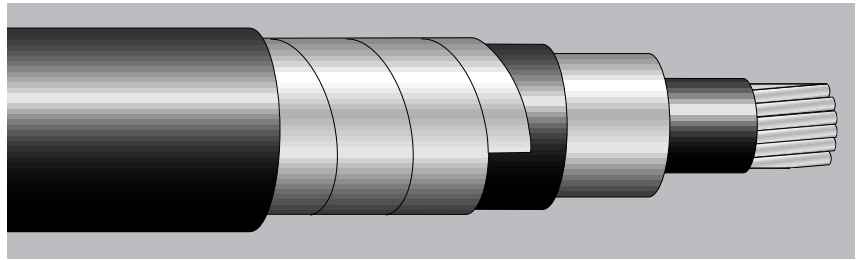
*** 133% insulation level is available on request.

SPECIAL CONSTRUCTIONS: Single conductors paralleled; single conductors triplexed, with or without ground wires, with or without jackets overall; and interlocked armor. Other voltage (such as 28,000 volt) are available on request.

NOTE: Also available in 46kV 100% insulation level as a non-UL listed product.

Dimensions and weights are nominal, subject to industry tolerance.

POWER CABLE UL TYPE MV-105 5kV - 35kV EPR/ HYP



Description

Conductors:

Annealed bare copper, Anapact™
Compact strand per ASTM B3

Sizes:

#8 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting
stress control layer over conductor

Insulation:

Ethylene Propylene Rubber (EPR)
insulation, colored to contrast with
black conducting shield layers

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric
layer free stripping from insulation

Metallic Shield:

An overlapped 5mil annealed copper
tape with an overlap of 25%

Jacket:

“Low Lead” Hypalon® chloro-
sulfonated polyethylene (CSPE)

UniBlend is manufactured in full
compliance with UL 1072 and meets
or exceeds the electrical and physical
requirements of ICEA S-68-516
(NEMA WC-8) and AEIC CS6.

Options:

- PVC jacket
- Low Smoke, Zero Halogen jacket
- CPE jacket
- Triplex and triplex with overall jacket

Features and Benefits

Temperature Rating:

- Normal.....105°C
- Emergency.....140°C
- Short Circuit.....250°C

Acceptable for use in OSHA regulated
installations.

UL listed as Type MV-105 for use
in accordance with the National
Electrical Code.

Sizes 1/0 AWG and larger are also
listed and marked “Sunlight Resistant
For CT Use” in accordance with the
National Electrical Code. Meets
IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/
CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Anapact conductor and simultaneous
extrusion of strand shield, insulation
and insulation shield combine to form
a virtually perfect electrode.

EPR Insulation Offers These Advantages:

- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant

EPR insulation is colored for contrast
with black conducting layers to
simplify cable preparation for more
reliable splices and terminations.

**Meets EPA 40 CFR, Part 261
for leachable lead content per
TCLP method.**

A 25% shield overlap (double the
industry standard):

- Insures better shield integrity during
the rigors of installation
- Provides superior short circuit
performance

Hypalon Jacket Offers the Following Advantages:

- Excellent low temperature properties
– meets ICEA cold bend test require-
ments to -65°C
- Resistant to moisture and chemicals
- Oil and sunlight resistant
- Superior resistance to flame
propagation

Applications

Superior performance in petrochemical
plants, pulp and paper mills, sewage
and water treatment plants, environ-
mental protection systems, railroads,
mines, utility power generating stations,
steel mills, textile plants and other
industrial three phase applications.

Suitable for use in wet or dry locations
when installed in accordance with the
NEC. For use in aerial, direct burial,
conduit, open tray, and underground
duct installations.

National Electrical Code:

Ampacities Article 310-15
Grounding Conductor . . Article 250-95
Wiring Methods . . . Article 300 & 710
Bending Radius Article 300-34
Cable Trays Article 318
Type MV Article 326

**EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND®
5kV 133% OR 8kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15001.520600	6 AWG 7/.0612	0.17	.015	0.20	.115	0.44	.030	0.51	0.52	.060	0.71	337
15001.520400	4 AWG 7/.0772	0.22	.015	0.25	.115	0.48	.030	0.55	0.56	.060	0.75	411
15001.520200	2 AWG 7/.0974	0.27	.015	0.30	.115	0.54	.030	0.61	0.62	.060	0.81	521
15001.520100	1 AWG 19/.0664	0.31	.015	0.34	.115	0.58	.030	0.64	0.66	.060	0.85	595
15001.525100	1/0 AWG 19/.0745	0.34	.015	0.38	.115	0.61	.030	0.68	0.69	.060	0.89	684
15001.525200	2/0 AWG 19/.0837	0.38	.015	0.42	.115	0.66	.030	0.73	0.74	.060	0.93	795
15001.525300	3/0 AWG 19/.0940	0.43	.015	0.47	.115	0.71	.030	0.78	0.79	.080	1.02	974
15001.525400	4/0 AWG 19/.1055	0.48	.015	0.52	.115	0.76	.030	0.83	0.84	.080	1.07	1142
15001.526000	250kcmil 37/.0822	0.53	.020	0.57	.115	0.81	.030	0.88	0.89	.080	1.13	1300
15001.526200	350kcmil 37/.0973	0.62	.020	0.67	.115	0.91	.030	0.98	0.99	.080	1.22	1672
15001.526500	500kcmil 37/.1162	0.74	.020	0.79	.115	1.03	.040	1.13	1.14	.080	1.37	2242
15001.527000	750kcmil 61/.1109	0.91	.025	0.97	.115	1.22	.040	1.31	1.33	.080	1.56	3154
15001.527500	1000kcmil 61/.1280	1.06	.025	1.13	.115	1.37	.040	1.47	1.49	.080	1.72	4038

**EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND®
15kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15021.530200	2 AWG 7/.0974	0.27	.015	0.30	.175	0.66	.030	0.73	0.74	.080	0.98	664
15021.530100	1 AWG 19/.0664	0.31	.015	0.34	.175	0.70	.030	0.77	0.78	.080	1.01	744
15021.535100	1/0 AWG 19/.0745	0.34	.015	0.38	.175	0.74	.030	0.81	0.82	.080	1.05	839
15021.535200	2/0 AWG 19/.0837	0.38	.015	0.42	.175	0.78	.030	0.85	0.86	.080	1.09	956
15021.535300	3/0 AWG 19/.0940	0.43	.015	0.47	.175	0.83	.030	0.90	0.91	.080	1.14	1099
15021.535400	4/0 AWG 19/.1055	0.48	.015	0.52	.175	0.88	.030	0.95	0.96	.080	1.19	1273
15021.536000	250kcmil 37/.0822	0.53	.020	0.57	.175	0.93	.030	1.01	1.02	.080	1.25	1436
15021.536200	350kcmil 37/.0973	0.62	.020	0.67	.175	1.03	.040	1.12	1.14	.080	1.37	1843
15021.536500	500kcmil 37/.1162	0.74	.020	0.79	.175	1.15	.040	1.25	1.26	.080	1.49	2404
15021.537000	750kcmil 61/.1109	0.91	.025	0.97	.175	1.34	.040	1.44	1.45	.080	1.68	3335
15021.537500	1000kcmil 61/.1280	1.06	.025	1.13	.175	1.50	.040	1.60	1.61	.080	1.84	4236

**EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND®
15kV 133%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15031.530200	2 AWG 7/.0974	0.27	.015	0.30	.220	0.75	.030	0.82	0.84	.080	1.07	754
15031.530100	1 AWG 19/.0664	0.31	.015	0.34	.220	0.79	.030	0.86	0.87	.080	1.10	836
15031.535100	1/0 AWG 19/.0745	0.34	.015	0.38	.220	0.83	.030	0.90	0.91	.080	1.14	934
15031.535200	2/0 AWG 19/.0837	0.38	.015	0.42	.220	0.87	.030	0.94	0.95	.080	1.18	1054
15031.535300	3/0 AWG 19/.0940	0.43	.015	0.47	.220	0.92	.030	0.99	1.00	.080	1.23	1202
15031.535400	4/0 AWG 19/.1055	0.48	.015	0.52	.220	0.97	.030	1.04	1.06	.080	1.29	1379
15031.536000	250kcmil 37/.0822	0.53	.020	0.57	.220	1.02	.030	1.10	1.11	.080	1.34	1547
15031.536200	350kcmil 37/.0973	0.62	.020	0.67	.220	1.12	.040	1.22	1.23	.080	1.46	1963
15031.536500	500kcmil 37/.1162	0.74	.020	0.79	.220	1.25	.040	1.34	1.35	.080	1.58	2533
15031.537000	750kcmil 61/.1109	0.91	.025	0.97	.220	1.43	.040	1.53	1.54	.080	1.77	3479
15031.537500	1000kcmil 61/.1280	1.06	.025	1.13	.220	1.59	.050	1.71	1.72	.110	2.01	4553

EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND® 25kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15041.530100	1 AWG 19/.0664	0.31	.015	0.34	.260	0.87	.030	0.94	0.95	.080	1.18	924
15041.535100	1/0 AWG 19/.0745	0.34	.015	0.38	.260	0.91	.030	0.98	0.99	.080	1.22	1025
15041.535200	2/0 AWG 19/.0837	0.38	.015	0.42	.260	0.95	.030	1.02	1.04	.080	1.27	1148
15041.535300	3/0 AWG 19/.0940	0.43	.015	0.47	.260	1.00	.030	1.07	1.09	.080	1.32	1299
15041.535400	4/0 AWG 19/.1055	0.48	.015	0.52	.260	1.05	.040	1.15	1.16	.080	1.39	1505
15041.536000	250kcmil 37/.0822	0.53	.020	0.57	.260	1.11	.040	1.20	1.21	.080	1.44	1678
15041.536200	350kcmil 37/.0973	0.62	.020	0.67	.260	1.20	.040	1.30	1.31	.080	1.54	2076
15041.536500	500kcmil 37/.1162	0.74	.020	0.79	.260	1.33	.040	1.42	1.44	.080	1.67	2654
15041.537000	750kcmil 61/.1109	0.91	.025	0.97	.260	1.51	.040	1.61	1.62	.110	1.91	3733
15041.537500	1000kcmil 61/.1280	1.06	.025	1.13	.260	1.67	.040	1.79	1.80	.110	2.09	4705

EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND® 35kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15061.515100	1/0 AWG 19/.0745	0.34	.015	0.38	.345	1.08	.040	1.17	1.19	.080	1.42	1262
15061.515200	2/0 AWG 19/.0837	0.38	.015	0.42	.345	1.12	.040	1.22	1.23	.080	1.46	1392
15061.515300	3/0 AWG 19/.0940	0.43	.015	0.47	.345	1.17	.040	1.27	1.28	.080	1.51	1551
15061.515400	4/0 AWG 19/.1055	0.48	.015	0.52	.345	1.22	.040	1.32	1.33	.080	1.56	1740
15061.516000	250kcmil 37/.0822	0.53	.020	0.57	.345	1.28	.040	1.37	1.39	.080	1.62	1921
15061.516200	350kcmil 37/.0973	0.62	.020	0.67	.345	1.37	.040	1.47	1.48	.080	1.72	2333
15061.516500	500kcmil 37/.1162	0.74	.020	0.79	.345	1.50	.040	1.60	1.61	.110	1.90	3050
15061.517000	750kcmil 61/.1109	0.91	.025	0.97	.345	1.68	.050	1.81	1.82	.110	2.11	4085
15061.517500	1000kcmil 61/.1280	1.06	.025	1.13	.345	1.84	.050	1.96	1.98	.110	2.27	5045

EPR/HYP POWER CABLE - UL TYPE MV-105 UNIBLEND® 35kV 133%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Hypalon (Chlorosulfonated Polyethylene) Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
15071.515100	1/0 AWG 19/.0745	0.34	.015	0.38	.420	1.23	.040	1.33	1.34	.080	1.52	1379
15071.515200	2/0 AWG 19/.0837	0.38	.015	0.42	.420	1.27	.040	1.37	1.38	.080	1.56	1513
15071.515300	3/0 AWG 19/.0940	0.43	.015	0.47	.420	1.32	.040	1.42	1.43	.080	1.61	1676
15071.515400	4/0 AWG 19/.1055	0.48	.015	0.52	.420	1.38	.040	1.47	1.49	.080	1.67	1870
15071.516000	250kcmil 37/.0822	0.53	.020	0.57	.420	1.43	.040	1.53	1.54	.080	1.72	2056
15071.516200	350kcmil 37/.0973	0.62	.020	0.67	.420	1.53	.040	1.63	1.64	.110	1.88	2586
15071.516500	500kcmil 37/.1162	0.74	.020	0.79	.420	1.65	.050	1.77	1.78	.110	2.03	3239
15071.517000	750kcmil 61/.1109	0.91	.025	0.97	.420	1.84	.050	1.96	1.97	.110	2.22	4258
15071.517500	1000kcmil 61/.1280	1.06	.025	1.13	.420	1.99	.050	2.12	2.13	.110	2.38	5234

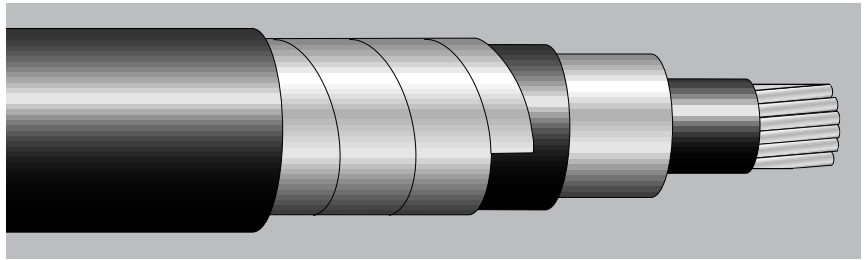
Print: SIZE (AWG OR KCMIL) COMPACT CU BICC CABLES UNIBLEND (INSULATION THICKNESS) MILS EPR TYPE MV-105
(VOLTAGE) KV% INSUL LEVEL SUN RES FOR CT USE (UL) month-year of manufacture

NOTE: A) Sizes smaller than 1/0 do not include "FOR CT USE"
B) The NEC lightning bolt symbol is on all Uniblend constructions.

Also available in 46kV 100% insulation level as a non-UL listed product.

Dimensions and weights are nominal, subject to industry tolerance.

POWER CABLE UL TYPE MV-105 5kV - 35kV EPR/LSZH



Description

Conductors:

Annealed bare copper Anapact™
Compact Class B strand

Sizes:

#6 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting
stress control layer over conductor

Insulation:

Ethylene Propylene rubber (EPR)
insulation colored to contrast with
black conducting shield layers

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric
layer free stripping from insulation

Metallic Shield:

An overlapped 5mil annealed
copper tape with an overlap of 25%

Jacket:

Thermoplastic Polyolefin Low
Smoke, Zero Halogen (LSZH),
Black Sunlight-Resistant

Options:

- Thermoset Low Smoke,
Zero Halogen jacket
- Triplex and triplex with overall
jacket

Uniblend is manufactured in full
compliance with UL 1072 and meets
or exceeds the electrical and physical
requirements of ICEA 5-68-516
(NEMA WC-8) and AEIC CS6.

Features and Benefits

Temperature Rating:

- Normal.....105°C
- Emergency.....140°C
- Short Circuit.....250°C

Acceptable for use in OSHA regulated
installations.

UL listed as Type MV-105 for use
in accordance with the National
Electrical Code.

Sizes #1/0 AWG and larger are also
UL listed and marked "Sunlight
Resistant For CT Use" in accordance
with the National Electrical Code.
Meets IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/
CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Anapact conductor and simultaneous
extrusion of strand shield, insulation
and insulation shield combine to form
a virtually perfect electrode.

EPR Insulation Offers These Advantages:

- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant

EPR insulation is colored for contrast
with black conducting layers to
simplify cable preparation for more
reliable splices and terminations.

A 25% shield overlap (double the
industry standard):

- Insures better shield integrity during
the rigors of installation
- Provides superior short circuit
performance

LSZH Jacket Offers the Following Advantages:

- Provides a high degree of flame
resistance
- Exhibits significant reduction in
emission of smoke and halogens
over more conventional cables
under conditions of fire
- Provides improved personnel
and equipment safety during the
hazards of fire

**Meets EPA 40 CFR, Part 261 for
leachable lead content per TCLP
method.**

Applications

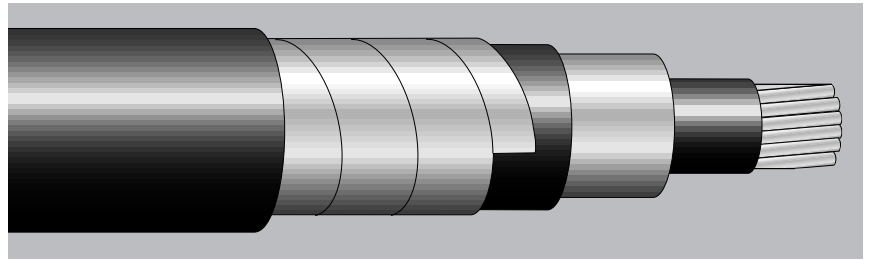
Superior performance in petrochemical
plants, pulp and paper mills, sewage
and water treatment plants, environ-
mental protection systems, railroads,
mines, utility power generating stations,
steel mills, textile plants and other
industrial three phase applications.

Suitable for use in wet or dry locations
when installed in accordance with the
NEC. For use in aerial, direct burial,
conduit, open tray, and underground
duct installations.

National Electrical Code:

AmpacitiesArticle 310-15
Grounding Conductor ...Article 250-95
Wiring Methods.....Article 300 & 710
Bending RadiusArticle 300-34
Cable TraysArticle 318
Type MVArticle 326

POWER CABLE UL TYPE MV-105 5kV - 35kV EPR/PVC



Description

Conductors:

Annealed bare copper, Anapact™ Compact Class B strand

Sizes:

#6 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

An overlapped 5mil annealed copper tape with an overlap of 25%

Jacket:

Flame-retardant and sunlight-resistant Polyvinyl Chloride (PVC)

Options:

- CPE jacket
- Low Smoke, Zero Halogen jacket
- Hypalon® jacket

UniBlend is manufactured in full compliance with UL 1072 and meets or exceeds the electrical and physical requirements of ICEA S-68-516 (NEMA WC-8) and AEIC CS6.

Features and Benefits

Temperature Ratings:

- Normal.....105°C
- Emergency.....140°C
- Short Circuit.....250°C

Acceptable for use in OSHA regulated installations.

UL listed as Type MV-105 for use in accordance with the National Electrical Code.

Sizes #1/0 AWG and larger are also listed and marked "Sunlight Resistant For CT Use" in accordance with the National Electrical Code. Meets IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Anapact conductor and simultaneous extrusion of strand shield, insulation and insulation shield combine to form a virtually perfect cable core.

EPR Insulation Offers These Advantages:

- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant

EPR insulation is colored for contrast with black conducting layers to simplify cable preparation for more reliable splices and terminations.

A 25% Shield Overlap (Double the Industry Standard):

- Insures better shield integrity during the rigors of installation
- Provides superior short circuit performance

PVC Jacket Offers the Following Advantages:

- Excellent flame resistance
- Excellent resistance to moisture and chemicals

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.

Applications

Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants, and other industrial three phase applications.

Suitable for use in wet or dry locations when installed in accordance with the NEC. For use in aerial, direct burial, conduit, open tray, and underground duct installations.

National Electrical Code:

AmpacitiesArticle 310-15
Grounding Conductor.....Article 250-95
Wiring Methods.....Article 300 & 710
Bending Radius.....Article 300-34
Cable Trays.....Article 318
Type MV.....Article 326

**EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND®
5kV 133% OR 8kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17001.120600	6 AWG 7/.0612	0.17	.015	0.20	.115	0.44	.030	0.51	0.52	.060	0.65	292
17001.120400	4 AWG 7/.0772	0.22	.015	0.25	.115	0.48	.030	0.55	0.56	.060	0.69	363
17001.120200	2 AWG 7/.0974	0.27	.015	0.30	.115	0.54	.030	0.61	0.62	.006	0.75	469
17001.120100	1 AWG 19/.0664	0.31	.015	0.34	.115	0.58	.030	0.64	0.66	.060	0.79	541
17001.125100	1/0 AWG 19/.0745	0.34	.015	0.38	.115	0.61	.030	0.68	0.69	.060	0.83	629
17001.125200	2/0 AWG 19/.0837	0.38	.015	0.42	.115	0.66	.030	0.73	0.74	.060	0.87	737
17001.125300	3/0 AWG 19/.0940	0.43	.015	0.47	.115	0.71	.030	0.78	0.79	.080	0.96	907
17001.125400	4/0 AWG 19/.1055	0.48	.015	0.52	.115	0.76	.030	0.83	0.84	.080	1.01	1072
17001.126000	250kcmil 37/.0822	0.53	.020	0.57	.115	0.81	.030	0.88	0.89	.080	1.07	1228
17001.126200	350kcmil 37/.0973	0.62	.020	0.67	.115	0.91	.030	0.98	0.99	.080	1.17	1595
17001.126500	500kcmil 37/.1162	0.74	.020	0.79	.115	1.03	.040	1.13	1.14	.080	1.32	2158
17001.127000	750kcmil 61/.1109	0.91	.025	0.97	.115	1.22	.040	1.31	1.33	.080	1.51	3062
17001.127500	1000kcmil 61/.1280	1.06	.025	1.13	.115	1.37	.040	1.47	1.49	.080	1.67	3940

**EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND®
15kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17021-130200	2 AWG 7/.0974	0.27	.015	0.30	.175	0.66	.030	0.73	0.74	.080	0.92	600
17021-130100	1 AWG 19/.0664	0.31	.015	0.34	.175	0.70	.030	0.77	0.78	.080	0.95	678
17021-135100	1/0 AWG 19/.0745	0.34	.015	0.38	.175	0.74	.030	0.81	0.82	.080	0.99	771
17021-135200	2/0 AWG 19/.0837	0.38	.015	0.42	.175	0.78	.030	0.85	0.86	.080	1.03	885
17021-135300	3/0 AWG 19/.0940	0.43	.015	0.47	.175	0.83	.030	0.90	0.91	.080	1.08	1026
17021-135400	4/0 AWG 19/.1055	0.48	.015	0.52	.175	0.88	.030	0.95	0.96	.080	1.14	1197
17021-136000	250kcmil 37/.0822	0.53	.020	0.57	.175	0.93	.030	1.01	1.02	.080	1.19	1358
17021-136200	350kcmil 37/.0973	0.62	.020	0.67	.175	1.03	.040	1.12	1.14	.080	1.31	1759
17021-136500	500kcmil 37/.1162	0.74	.020	0.79	.175	1.15	.040	1.25	1.26	.080	1.44	2314
17021-137000	750kcmil 61/.1109	0.91	.025	0.97	.175	1.34	.040	1.44	1.45	.080	1.63	3238
17021-137500	1000kcmil 61/.1280	1.06	.025	1.13	.175	1.50	.040	1.60	1.61	.080	1.79	4132

**EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND®
15kV 133%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape Diameter (inches)	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17031-130200	2 AWG 7/.0974	0.27	.015	0.30	.220	0.75	.030	0.82	0.84	.080	1.01	685
17031-130100	1 AWG 19/.0664	0.31	.015	0.34	.220	0.79	.030	0.86	0.87	.080	1.04	765
17031-135100	1/0 AWG 19/.0745	0.34	.015	0.38	.220	0.83	.030	0.90	0.91	.080	1.08	861
17031-135200	2/0 AWG 19/.0837	0.38	.015	0.42	.220	0.87	.030	0.94	0.95	.080	1.13	979
17031-135300	3/0 AWG 19/.0940	0.43	.015	0.47	.220	0.92	.030	0.99	1.00	.080	1.18	1124
17031-135400	4/0 AWG 19/.1055	0.48	.015	0.52	.220	0.97	.030	1.04	1.06	.080	1.23	1299
17031-136000	250kcmil 37/.0822	0.53	.020	0.57	.220	1.02	.030	1.10	1.11	.080	1.29	1464
17031-136200	350kcmil 37/.0973	0.62	.020	0.67	.220	1.12	.040	1.22	1.23	.080	1.41	1875
17031-136500	500kcmil 37/.1162	0.74	.020	0.79	.220	1.25	.040	1.34	1.35	.080	1.53	2440
17031-137000	750kcmil 61/.1109	0.91	.025	0.97	.220	1.43	.040	1.53	1.54	.080	1.72	3378
17031-137500	1000kcmil 61/.1280	1.06	.025	1.13	.220	1.59	.050	1.71	1.72	.110	1.97	4433

EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND® 25kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17041.130100	1 AWG 19/.0664	0.31	.015	0.34	.260	0.87	.030	0.94	0.95	.080	1.13	849
17041.135100	1/0 AWG 19/.0745	0.34	.015	0.38	.260	0.91	.030	0.98	0.99	.080	1.17	948
17041.135200	2/0 AWG 19/.0837	0.38	.015	0.42	.260	0.95	.030	1.02	1.04	.080	1.21	1069
17041.135300	3/0 AWG 19/.0940	0.43	.015	0.47	.260	1.00	.030	1.07	1.09	.080	1.26	1217
17041.135400	4/0 AWG 19/.1055	0.48	.015	0.52	.260	1.05	.040	1.15	1.16	.080	1.33	1420
17041.136000	250kcmil 37/.0822	0.53	.020	0.57	.260	1.11	.040	1.20	1.21	.080	1.39	1590
17041.136200	350kcmil 37/.0973	0.62	.020	0.67	.260	1.20	.040	1.30	1.31	.080	1.49	1984
17041.136500	500kcmil 37/.1162	0.74	.020	0.79	.260	1.33	.040	1.42	1.44	.080	1.62	2558
17041.137000	750kcmil 61/.1109	0.91	.025	0.97	.260	1.51	.040	1.61	1.62	.110	1.87	3617
17041.137500	1000kcmil 61/.1280	1.06	.025	1.13	.260	1.67	.050	1.79	1.80	.110	2.05	4582

EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND® 35kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17061.135100	1/0 AWG 19/.0745	0.34	.015	0.38	.345	1.08	.040	1.17	1.19	.080	1.36	1175
17061.135200	2/0 AWG 19/.0837	0.38	.015	0.42	.345	1.12	.040	1.22	1.23	.080	1.41	1304
17061.135300	3/0 AWG 19/.0940	0.43	.015	0.47	.345	1.17	.040	1.27	1.28	.080	1.46	1461
17061.135400	4/0 AWG 19/.1055	0.48	.015	0.52	.345	1.22	.040	1.32	1.33	.080	1.51	1648
17061.136000	250kcmil 37/.0822	0.53	.020	0.57	.345	1.28	.040	1.37	1.39	.080	1.57	1826
17061.136200	350kcmil 37/.0973	0.62	.020	0.67	.345	1.37	.040	1.47	1.48	.080	1.67	2234
17061.136500	500kcmil 37/.1162	0.74	.020	0.79	.345	1.50	.040	1.60	1.61	.110	1.85	2934
17061.137000	750kcmil 61/.1109	0.91	.025	0.97	.345	1.68	.055	1.81	1.82	.110	2.06	3962
17061.137500	1000kcmil 61/.1280	1.06	.025	1.13	.345	1.84	.055	1.96	1.98	.110	2.22	4917

EPR/PVC POWER CABLE UL TYPE MV-105 5KV-35KV UNIBLEND® 35kV 133%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5Mil Copper Tape	Polyvinyl Chloride Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
17071.135100	1/0 AWG 19/.0745	0.34	.015	0.38	.420	1.23	.040	1.33	1.34	.080	1.52	1379
17071.135200	2/0 AWG 19/.0837	0.38	.015	0.42	.420	1.27	.040	1.37	1.38	.080	1.56	1513
17071.135300	3/0 AWG 19/.0940	0.43	.015	0.47	.420	1.32	.040	1.42	1.43	.080	1.61	1676
17071.135400	4/0 AWG 19/.1055	0.48	.015	0.52	.420	1.38	.040	1.47	1.49	.080	1.67	1870
17071.136000	250kcmil 37/.0822	0.53	.020	0.57	.420	1.43	.040	1.53	1.54	.080	1.72	2056
17071.136200	350kcmil 37/.0973	0.62	.020	0.67	.420	1.53	.040	1.63	1.64	.110	1.88	2586
17071.136500	500kcmil 37/.1162	0.74	.020	0.79	.420	1.65	.050	1.77	1.78	.110	2.03	3239
17071.137000	750kcmil 61/.1109	0.91	.025	0.97	.420	1.84	.050	1.96	1.97	.110	2.22	4258
17071.137500	1000kcmil 61/.1280	1.06	.025	1.13	.420	1.99	.050	2.12	2.13	.110	2.38	5234

Print: SIZE (AWG OR KCMIL) COMPACT CU BICC CABLES UNIBLEND (INSULATION THICKNESS) MILS EPR TYPE MV-105 (VOLTAGE) KV%
INSULATION LEVEL SUN RES FOR CT USE (UL) month-year of manufacture

NOTE: A) Sizes smaller than 1/0 do not include "FOR CT USE"
B) The NEC lightning bolt symbol is on all Uniblend constructions.

Also available in 46KV 100% insulation level as a non-UL listed product.

Dimensions and weights are nominal, subject to industry tolerance.

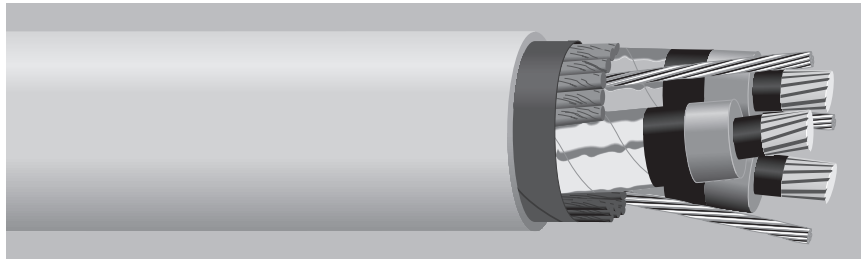
6.10

NON-ARMORED POWER – MEDIUM VOLTAGE CABLE

BICC Cables has made every effort to ensure the accuracy of the information provided in this catalog, however, we cannot be responsible for errors, omissions, or changes due to obsolescence. All data herein is subject to change without notice. Data and suggestions made in this catalog are not to be construed as recommendations to use any product in violation of any government law or regulations relating to any material or its use.

EFFECTIVE 1998-9-30

POWER CABLE UL TYPE MV-105 5kV - 35kV EPR/PVC 3 CONDUCTOR



Description

Phase Conductors:

Annealed bare copper Anapact™
Compact Class B strand

Sizes:

#6 AWG through 1000 kcmil

Grounding Conductors:

1-3 bare or covered grounding
conductors may be supplied in the
twisted assembly upon request

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric
layer free stripping from insulation

Insulation:

Ethylene Propylene rubber (EPR)
insulation colored to contrast with
the black conducting shield layers

Metallic Shield:

An overlapped 5mil annealed copper
tape with an overlap of 25%

Cabling:

Singles are triplexed in accordance
with ICEA & UL

Jacket:

Flame-retardant and sunlight-resistant
Polyvinyl Chloride (PVC)

Uniblend is manufactured in full
compliance with UL 1072 and meets
or exceeds the electrical and physical
requirements of ICEA 5-68-516
(NEMA WC-8) and AEIC CS6.

Optional Jackets:

Hypalon or CPE or NLJ

Optional Constructions:

- Jacket singles
- UniShield singles

Features and Benefits

Temperature Ratings:

- Normal.....105°C
- Emergency.....140°C
- Short Circuit.....250°C

The compact twisted assembly offers
ease of installation and lower voltage
drop characteristics as compared to
multiple single conductor systems.

Acceptable for use in OSHA regulated
installations.

UL listed as Type MV-105 for use in
accordance with the National Electrical
Code. UL labelled and marked
“Sunlight Resistant For CT Use.”
Meets IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/
CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

Anapact conductor and simultaneous
extrusion of strand shield, insulation
and insulation shield combine to form
a virtually perfect electrode.

EPR Insulation Offers These

Advantages:

- Excellent heat and moisture resistance
- Outstanding corona resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant

EPR insulation is colored for contrast
with black conducting layers to
simplify cable preparation for more
reliable splices and terminations.

**Meets EPA 40 CFR, Part 261 for
leachable lead content per TCLP
method.**

Applications

UniBlend EPR/PVC is ideally
suited for use in a broad range of
commercial, industrial, and utility
applications, where reliability is the
major concern, space is limited, and
ease of installation is critical.

Suitable for use in wet or dry locations
when installed in accordance with the
NEC. For use in aerial, direct burial,
conduit, open tray, and underground
duct installations.

National Electrical Code:

AmpacitiesArticle 310-15
Wiring MethodsArticle 300 & 710
Bending Radius.....Article 300-34
Cable TraysArticle 318
Type MVArticle 326

EPR/PVC POWER CABLE - UL TYPE MV-105 5kV-35kV UNIBLEND® 3 CONDUCTOR 5kV 133% OR 8kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5 Mil Copper Tape	Diameter Under Jacket	Jacket Diameter		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)			Thickness (inches)	Over Jacket	
15493.400600	6 AWG 7/.0612	0.17	.008	0.19	.115	0.43	.024	0.49	0.51	1.12	.080	1.29	939
15493.400400	4 AWG 7/.0772	0.22	.008	0.24	.115	0.47	.024	0.54	0.55	1.22	.080	1.39	1158
15493.400200	2 AWG 7/.0974	0.27	.008	0.29	.115	0.53	.024	0.60	0.61	1.34	.080	1.51	1511
15493.405100	1/0 AWG 19/.0745	0.34	.008	0.36	.115	0.60	.024	0.67	0.68	1.50	.110	1.67	2030
15493.405200	2/0 AWG 19/.0837	0.38	.008	0.41	.115	0.64	.024	0.71	0.74	1.59	.110	1.82	2449
15493.405400	4/0 AWG 19/.1055	0.58	.008	0.51	.115	0.74	.024	0.82	0.84	1.83	.110	2.07	3438
15493.406000	250kcmil 37/.0822	0.53	.010	0.55	.115	0.79	.024	0.86	0.88	1.92	.110	2.15	3893
15493.406200	350kcmil 37/.0973	0.62	.010	0.65	.115	0.89	.024	0.96	0.97	2.14	.110	2.36	5009
15493.406500	500kcmil 37/.1162	0.74	.010	0.77	.115	1.01	.024	1.09	1.10	2.40	.110	2.64	6763
15493.407000	750kcmil 61/.1109	0.91	.0125	0.95	.115	1.19	.032	1.29	1.30	2.84	.140	3.14	9833
15493.407500	1000kcmil 61/.1280	1.06	.0125	1.10	.115	1.35	.032	1.45	1.46	3.17	.140	3.48	12601

EPR/PVC POWER CABLE - UL TYPE MV-105 5kV-35kV UNIBLEND® 3 CONDUCTOR 15kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5 Mil Copper Tape	Diameter Under Jacket	Jacket Diameter		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)			Thickness (inches)	Over Jacket	
15493.420200	2 AWG 7/.0974	0.27	.008	0.29	.175	0.65	.024	0.72	.073	1.61	.110	1.84	1942
15493.425100	1/0 AWG 19/.0745	0.34	.008	0.36	.175	0.72	.024	0.79	.080	1.76	.110	1.99	2489
15493.425200	2/0 AWG 19/.0837	0.38	.008	0.41	.175	0.76	.024	0.83	.085	1.86	.110	2.09	2835
15493.425400	4/0 AWG 19/.1055	0.48	.008	0.51	.175	0.87	.024	0.94	.095	2.08	.110	2.32	3839
15493.426000	250kcmil 37/.0822	0.53	.010	0.55	.175	0.91	.024	0.99	1.00	2.18	.110	2.42	4315
15493.426200	350kcmil 37/.0973	0.62	.010	0.65	.175	1.01	.024	1.08	1.10	2.40	.110	2.64	5530
15493.426500	500kcmil 37/.1162	0.74	.010	0.77	.175	1.13	.032	1.23	1.24	2.71	.140	3.01	7562
15493.427000	750kcmil 61/.1109	0.91	.0125	0.95	.175	1.31	.032	1.41	1.42	3.10	.140	3.40	10472
15493.427500	1000kcmil 61/.1280	1.06	.0125	1.10	.175	1.47	.032	1.57	1.58	3.44	.140	3.75	13281

EPR/PVC POWER CABLE - UL TYPE MV-105 5kV-35kV UNIBLEND® 3 CONDUCTOR 15kV 133%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5 Mil Copper Tape	Diameter Under Jacket	Jacket Diameter		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)			Thickness (inches)	Over Jacket	
15493.440200	2 AWG 7/.0974	0.27	.008	0.29	.220	0.74	.024	0.81	0.82	1.81	.110	2.04	2226
15493.445100	1/0 AWG 19/.0745	0.34	.008	0.36	.220	0.81	.024	0.88	0.90	1.96	.110	2.20	2811
15493.445200	2/0 AWG 19/.0837	0.38	.008	0.41	.220	0.86	.024	0.93	0.94	2.06	.110	2.30	3163
15493.445400	4/0 AWG 19/.1055	0.48	.008	0.51	.220	0.96	.024	1.03	1.04	2.28	.110	2.52	4203
15493.446000	250kcmil 37/.0822	0.53	.010	0.55	.220	1.00	.024	1.09	1.11	2.42	.110	2.66	4775
15493.446200	350kcmil 37/.0973	0.62	.010	0.65	.220	1.10	.032	1.20	1.21	2.64	.140	2.94	6182
15493.446500	500kcmil 37/.1162	0.74	.010	0.77	.220	1.23	.032	1.32	1.32	2.91	.140	3.21	7686
15493.447000	750kcmil 61/.1109	0.91	.0125	0.95	.220	1.41	.040	1.50	1.52	3.30	.140	3.61	10978
15493.447500	1000kcmil 61/.1280	1.06	.0125	1.10	.220	1.56	.040	1.68	1.69	3.68	.140	3.99	13983

**EPR/PVC POWER CABLE - UL TYPE MV-105 5kV-35kV
UNIBLEND® 3 CONDUCTOR
25kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5 Mil Copper Tape	Diameter Under Jacket	Jacket Diameter		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)		Thickness (inches)	Over Jacket	
15493.465100	1/0 AWG 19/.0745	0.34	.008	0.36	.260	0.89	.024	0.97	0.98	2.14	.110	2.38	3067
15493.465200	2/0 AWG 19/.0837	0.38	.008	0.41	.260	0.94	.024	1.01	1.02	2.23	.110	2.47	3468
15493.465400	4/0 AWG 19/.1055	0.48	.008	0.51	.260	1.04	.032	1.13	1.15	2.50	.110	2.74	4610
15493.466000	250kcmil 37/.0822	0.53	.010	0.55	.260	1.09	.032	1.18	1.19	2.60	.140	2.90	5296
15493.466200	350kcmil 37/.0973	0.62	.010	0.65	.260	1.18	.032	1.28	1.29	2.81	.140	3.11	6568
15493.466500	500kcmil 37/.1162	0.74	.010	0.77	.260	1.31	.032	1.40	1.42	3.08	.140	3.38	8381
15493.467000	750kcmil 61/.1109	0.91	.0125	0.95	.260	1.49	.032	1.59	1.60	3.48	.140	3.79	11434
15493.467500	1000kcmil 61/.1280	1.06	.0125	1.10	.260	1.64	.040	1.76	1.78	3.86	.140	4.17	14505

**EPR/PVC POWER CABLE - UL TYPE MV-105 5kV-35kV
UNIBLEND® 3 CONDUCTOR
35kV 100%**

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		5 Mil Copper Tape	Diameter Under Jacket	Jacket Diameter		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)		Thickness (inches)	Over Jacket	
15493.485100	1/0 AWG 19/.0745	0.34	.008	0.36	.345	1.07	.032	1.16	1.17	2.56	.110	2.80	3861
15493.485200	2/0 AWG 19/.0837	0.38	.008	0.41	.345	1.11	.032	1.20	1.22	2.65	.140	2.95	4462
15493.485400	4/0 AWG 19/.1055	0.48	.008	0.51	.345	1.21	.032	1.31	1.32	2.87	.140	3.17	5585
15493.486000	250kcmil 37/.0822	0.53	.010	0.55	.345	1.26	.032	1.36	1.37	2.98	.140	3.28	6143
15493.486200	350kcmil 37/.0973	0.62	.010	0.65	.345	1.35	.032	1.45	1.47	3.19	.140	3.49	7455
15493.486500	500kcmil 37/.1162	0.74	.010	0.77	.345	1.48	.032	1.58	1.59	3.46	.140	3.77	9397
15493.487000	750kcmil 61/.1109	0.91	.0125	0.95	.345	1.66	.040	1.78	1.79	3.89	.140	4.20	12659
15493.487500	1000kcmil 61/.1280	1.06	.0125	1.10	.345	1.81	.040	1.94	1.95	4.23	.140	4.54	15644

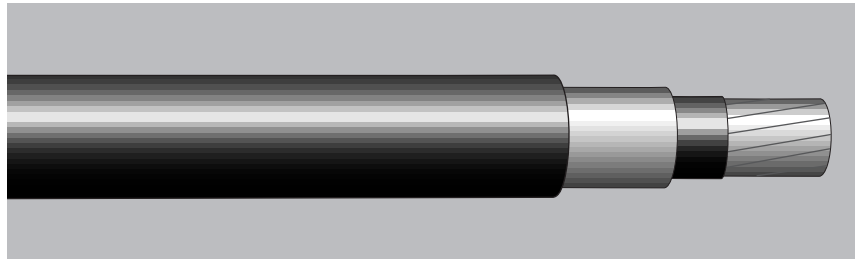
Print: SIZE (AWG OR KCMIL) COMPACT CU 3/C BICC CABLES (INSULATION THICKNESS) MILS EPR TYPE MV-105 (VOLTAGE) KV%
INSUL LEVEL SUN RES FOR CT USE (UL) month-year of manufacture

NOTE: A) Sequentially printed at 2-foot intervals.
B) The NEC lightning bolt symbol is on all Uniblend constructions.

Also available in 46kV 100% insulation level as a non-UL listed product.

Dimensions and weights are nominal, subject to industry tolerance.

POWER CABLE
UL TYPE MV-90
5 kV
EPR/HYP
LOW LEAD



Description

Conductors:

Annealed bare copper, Anapact™
 Compact Class B strand

Sizes:

#8 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting
 stress control layer over conductor

Insulation:

Ethylene Propylene Rubber (EPR)
 insulation colored to contrast with
 black jacket material

Jacket:

"Low Lead" Hypalon® chloro-
 sulfonated polyethylene (CSPE)

Meets or Exceeds the Requirements of:

- ICEA S-68-516 (NEMA WC-8)
 Standard for EPR Insulated Wire
 and Cable
- UL 1072 for medium voltage solid
 dielectric cable
- FAA L824 specification for cable
 for Underground Airport Lighting
 Circuits

Features and Benefits

Temperature Ratings:

- Normal 90°C
- Emergency 130°C
- Short Circuit 250°C

Acceptable for use in OSHA regulated
 installations.

UL listed as Type MV-90 for use in
 accordance with the National
 Electrical Code.

Sizes #1/0 AWG and larger are also
 listed and marked "For CT Use" in
 accordance with the National
 Electrical Code; listed "Oil Resistant
 II". Meets IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/
 CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

EPR Insulation Offers These

Advantages:

- Excellent heat and moisture resistance
- Flexibility for easy handling
- High dielectric strength
- Low moisture absorption
- Electrical stability under stress
- Low dielectric loss
- Chemical resistant
- Sunlight resistant
- Simplification of splicing and
 terminating by elimination of need
 to handle cable shield
- Extra tough, mechanically rugged
 composite insulation and jacket
 construction

**Meets EPA 40 CFR, Part 261 for
 leachable lead content per TCLP
 method.**

Applications

DuraSheath EPR, 5000 Volt non-shielded
 power cables are ideally suited for use
 in industrial and utility applications
 where ease of installation is a major
 concern because of limited space and
 exposure to personnel is minimal.

DuraSheath EPR has a proven record
 of reliable performance through
 extensive use in these applications:
 Pulp and paper mills, petrochemical
 plants, sewage treatment facilities,
 water treatment plants, steel mills,
 textile mills, utility power generating
 stations, scrubbers and other environ-
 mental protection systems, railroad
 and mining facilities.

Suitable for use in wet or dry locations
 when installed in accordance with the
 NEC. For use in aerial conduit, open
 tray, and underground duct installations.

National Electrical Code:

Ampacities Article 310-15
 Bending Radius Article 300-34
 Wiring Methods Article 300
 Article 710
 Grounding Conductors Article 250-95
 Cable Trays Article 318-13
 Type MV Article 326

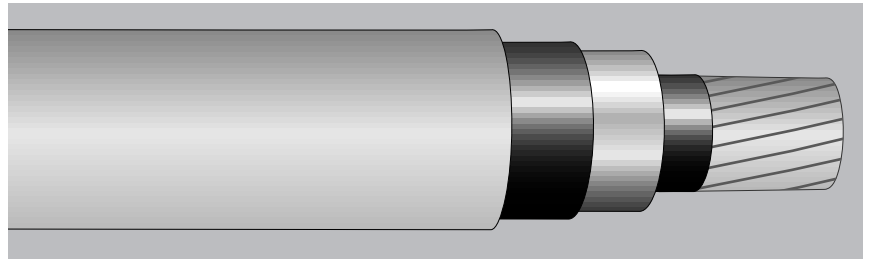
EPR/HYP POWER CABLE - UL TYPE MV-90 DURASHEATH® LOW LEAD

BICC Part Number	AWG or kcmil and Stranding	Conductor Diameter (inches)	Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Chlorosulfonated Polyethylene Jacket		Net Weight (lbs/1000 ft.)
			Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
14901.410800	8 AWG 7/.0486	0.14	0.008	0.15	0.125	0.41	0.080	0.58	196
14901.410600	6 AWG 7/.0612	0.17	0.008	0.19	0.125	0.44	0.080	0.62	241
14901.410400	4 AWG 7/.0772	0.22	0.008	0.23	0.125	0.49	0.080	0.66	308
14901.410200	2 AWG 7/.0974	0.27	0.008	0.29	0.125	0.55	0.080	0.72	408
14901.410100	1 AWG 7/.0664	0.31	0.008	0.33	0.125	0.58	0.080	0.76	476
14901.415100	1/0 AWG 19/.0745	0.34	0.008	0.36	0.125	0.62	0.080	0.79	562
14901.415200	2/0 AWG 19/.0837	0.38	0.008	0.41	0.125	0.66	0.080	0.84	666
14901.415300	3/0 AWG 19/.0940	0.43	0.008	0.45	0.125	0.71	0.095	0.92	823
14901.415400	4/0 AWG 19/.1055	0.48	0.008	0.50	0.125	0.76	0.095	0.97	983
14901.416000	250kcmil 37/.0822	0.53	0.008	0.55	0.140	0.84	1.110	1.08	1183
14901.416200	350kcmil 37/.0973	0.62	0.008	0.64	0.140	0.93	1.110	1.17	1545
14901.416500	500kcmil 37/.1162	0.74	0.008	0.77	0.140	1.06	1.110	1.30	2077
14901.417000	750kcmil 61/.1109	0.91	0.008	0.94	0.155	1.26	1.125	1.54	3040
14901.417500	1000kcmil 61/.1280	1.06	0.008	1.09	0.155	1.42	1.125	1.70	3913
Print: SIZE (AWG OR KCMIL) COMPACT CU BICC CABLES DURASHEATH LL 5KV NONSHIELDED EP TYPE MV-90 WET OR DRY FOR CT USE OIL RES II (UL) month/year of manufacture									

NOTE: Sizes smaller than 1/0 do not include "FOR CT USE"

Dimensions and weights are nominal, subject to industry tolerance.

POWER CABLE
UL TYPE MV-105
5kV - 35kV
EPR/LEAD



Description

Conductors:

Annealed bare copper Anapact™
 Compact Class B strand

Sizes:

#2 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

Ethylene Propylene Rubber (EPR) insulation, colored for contrast with black semi-conducting shield layers. XLPE insulation also available.

Extruded Insulation Shield (EIS):

Thermoset semi-conducting layer free stripping from insulation

Lead metallic shield (sheath)

Jacket (Optional)

Extruded layer of black low density high molecular weight polyethylene (HMWPE) when required for corrosion protection

Meets or Exceeds the Requirements of:

- ICEA S-68-516 (NEMA WC-8) Standard for EP Insulated Wire and Cable
- ASTM B 29 for pig lead and AEIC CS1 and AEIC CS6, latest editions

Features and Benefits

Temperature Ratings:

- Normal Continuous90°C
- Emergency130°C
- Short Circuit.....250°C

Anapact conductor and simultaneous extrusion of strand shield insulation and insulation shield combine to form a virtually perfect cable core.

Sizes #1/0 AWG and larger are also listed and marked "Sunlight Resistant For CT Use" in accordance with the National Electrical Code. Meets IEEE 383 (70,000 BTU/hr).

Additional Flame Tests:

- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)

EPR Insulation Offers These

Advantages:

- Excellent heat resistance
- Flexibility for easy handling
- High dielectric strength
- Excellent moisture resistance
- Electrical stability under stress
- EPR insulation is colored for contrast with black conducting layers to simplify cable preparation for more reliable splices and terminations
- High normal continuous operating temperature (ampacity) ratings
- High emergency operating temperature
- Low dielectric loss and high impulse strength

- Excellent structural and electrical stability during load cycling and temperature excursions caused by overload or fault conditions
- Virtually immune to corona degradation
- High fault current capability due to low shield impedance
- Excellent chemical resistance provided by EP insulation, lead sheath and HMWPE jacket
- Meets cold bend test requirements down to - 40°C

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.

Applications

EPR/Lead is designed for applications in which liquid contamination is present and reliability is paramount. The sheath combined with the overall jacket provides a virtually impenetrable barrier against hostile environments – liquids, fire hydrocarbons, acids, caustics, sewage, etc.

National Electrical Code:

AmpacitiesArticle 310-15
 Grounding Conductor ...Article 250-95
 Wiring Methods.....Article 300 & 710
 Bending RadiusArticle 300-34
 Cable TraysArticle 318
 Type MVArticle 326

EPR/LEAD POWER CABLE

BICCables

SPECIFICATION #EPR/LEAD-P-0001

EPR/LEAD POWER CABLE - UL TYPE MV-105 5kV - 35kV 5kV 133% OR 8kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		Lead		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
11731.010200	2 AWG 7/.0974	0.27	0.015	0.30	0.115	0.54	0.024	0.61	0.065	0.75	1192
11731.015100	1/0 AWG 19/.0745	0.34	0.015	0.38	0.115	0.61	0.024	0.68	0.065	0.83	1429
11731.015200	2/0 AWG 19/.0837	0.38	0.015	0.42	0.115	0.66	0.024	0.73	0.065	0.87	1583
11731.015400	4/0 AWG 19/.1055	0.48	0.015	0.52	0.115	0.76	0.024	0.83	0.080	1.00	2274
11731.016000	250kcmil 37/.0822	0.53	0.020	0.57	0.115	0.81	0.024	0.88	0.080	1.06	2501
11731.016200	350kcmil 37/.0973	0.62	0.020	0.67	0.115	0.91	0.024	0.98	0.080	1.16	2994
11731.016500	500kcmil 37/.1162	0.74	0.020	0.79	0.115	1.03	0.032	1.13	0.095	1.34	4131
11731.017000	750kcmil 61/.1109	0.91	0.025	0.97	0.115	1.22	0.032	1.31	0.095	1.52	5530
11731.017500	1000kcmil 61/.1280	1.06	0.025	1.13	0.115	1.37	0.032	1.47	0.095	1.68	6458

EPR/LEAD POWER CABLE - UL TYPE MV-105 5kV - 35kV 15kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		Lead		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
11712.210200	2 AWG 7/.0974	0.27	0.015	0.30	0.175	0.66	0.024	0.73	0.080	0.91	1678
11712.215100	1/0 AWG 19/.0745	0.34	0.015	0.38	0.175	0.74	0.024	0.81	0.080	0.98	1944
11712.215200	2/0 AWG 19/.0837	0.38	0.015	0.42	0.175	0.78	0.024	0.85	0.080	1.03	2115
11712.215400	4/0 AWG 19/.1055	0.48	0.015	0.52	0.175	0.88	0.024	0.95	0.080	1.13	2558
11712.216000	250kcmil 37/.0822	0.53	0.020	0.57	0.175	0.93	0.024	1.01	0.080	1.18	2790
11712.216200	350kcmil 37/.0973	0.62	0.020	0.67	0.175	1.03	0.032	1.12	0.095	1.33	3728
11712.216500	500kcmil 37/.1162	0.74	0.020	0.79	0.175	1.15	0.032	1.25	0.095	1.46	4481
11712.217000	750kcmil 61/.1109	0.91	0.025	0.97	0.175	1.34	0.032	1.44	0.095	1.65	5700
11712.217500	1000kcmil 61/.1280	1.06	0.025	1.13	0.175	1.50	0.032	1.60	0.110	1.84	7377

EPR/LEAD POWER CABLE - UL TYPE MV-105 5kV - 35kV 15kV 133%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		Lead		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
11722.310200	2 AWG 7/.0974	0.27	0.015	0.30	0.220	0.75	0.024	0.82	0.080	1.00	1882
11722.315100	1/0 AWG 19/.0745	0.34	0.015	0.38	0.220	0.83	0.024	0.90	0.080	1.07	2153
11722.315200	2/0 AWG 19/.0837	0.38	0.015	0.42	0.220	0.87	0.024	0.94	0.080	1.12	2328
11722.315400	4/0 AWG 19/.1055	0.48	0.015	0.52	0.220	0.97	0.024	1.04	0.080	1.22	2779
11722.316000	250kcmil 37/.0822	0.53	0.020	0.57	0.220	1.02	0.032	1.12	0.095	1.33	3448
11722.316200	350kcmil 37/.0973	0.62	0.020	0.67	0.220	1.12	0.032	1.22	0.095	1.43	3989
11722.316500	500kcmil 37/.1162	0.74	0.020	0.79	0.220	1.25	0.032	1.34	0.095	1.55	4752
11722.317000	750kcmil 61/.1109	0.91	0.025	0.97	0.220	1.43	0.032	1.53	0.095	1.74	5985
11722.317500	1000kcmil 61/.1280	1.06	0.025	1.13	0.220	1.59	0.040	1.71	0.110	1.95	7773

EPR/LEAD POWER CABLE - UL TYPE MV-105 5kV - 35kV 25kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		Lead		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
11765.215100	1/0 AWG 19/.0745	0.34	0.015	0.38	0.260	0.91	0.024	0.98	0.080	1.16	2346
11765.215200	2/0 AWG 19/.0837	0.38	0.015	0.42	0.260	0.95	0.024	1.02	0.080	1.20	2523
11765.215300	3/0 AWG 19/.0940	0.43	0.015	0.47	0.260	1.00	0.024	1.07	0.080	1.25	2736
11765.215400	4/0 AWG 19/.1055	0.48	0.015	0.52	0.260	1.05	0.032	1.15	0.095	1.35	3423
11765.216000	250kcmil 37/.0822	0.53	0.020	0.57	0.260	1.11	0.032	1.20	0.095	1.41	3680
11765.216200	350kcmil 37/.0973	0.62	0.020	0.67	0.260	1.20	0.032	1.30	0.095	1.51	4227
11765.216500	500kcmil 37/.1162	0.74	0.020	0.79	0.260	1.33	0.032	1.42	0.095	1.63	4999
11765.217000	750kcmil 61/.1109	0.91	0.025	0.97	0.260	1.51	0.032	1.61	0.110	1.85	6782
11765.217500	1000kcmil 61/.1280	1.06	0.025	1.13	0.260	1.67	0.040	1.79	0.110	2.03	8069

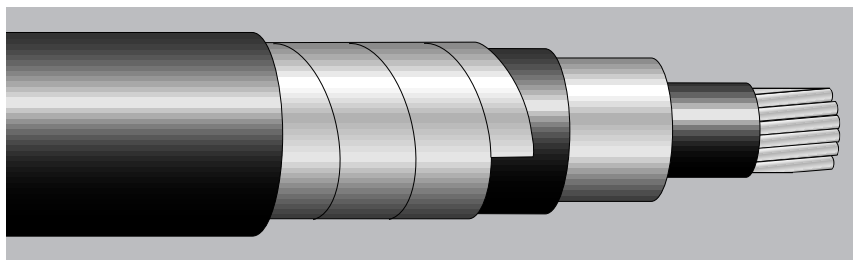
EPR/LEAD POWER CABLE - UL TYPE MV-105 5kV - 35kV 35kV 100%

BICC Part Number	Bare Compact Copper Conductor		Extruded Strand Shield		Ethylene Propylene Rubber Insulation		Extruded Insulation Shield		Lead		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
11775.215100	1/0 AWG 19/.0745	0.34	0.015	0.38	0.345	1.08	0.032	1.17	0.095	1.38	3224
11775.215200	2/0 AWG 19/.0837	0.38	0.015	0.42	0.345	1.12	0.032	1.22	0.095	1.43	3421
11775.215300	3/0 AWG 19/.0940	0.43	0.015	0.47	0.345	1.17	0.032	1.27	0.095	1.48	3656
11775.215400	4/0 AWG 19/.1055	0.48	0.015	0.52	0.345	1.22	0.032	1.32	0.095	1.53	3925
11775.216000	250kcmil 37/.0822	0.53	0.020	0.57	0.345	1.28	0.032	1.37	0.095	1.58	4190
11775.216200	350kcmil 37/.0973	0.62	0.020	0.67	0.345	1.37	0.032	1.47	0.095	1.68	4752
11775.216500	500kcmil 37/.1162	0.74	0.020	0.79	0.345	1.50	0.032	1.60	0.110	1.84	6075
11775.217000	750kcmil 61/.1109	0.91	0.025	0.97	0.345	1.68	0.040	1.81	0.110	2.05	7477
11775.217500	1000kcmil 61/.1280	1.06	0.025	1.13	0.345	1.84	0.040	1.96	0.110	2.21	8716

Tape Marker: SIZE (AWG OR KCMIL) COMPACT CU BICC CABLES (INSULATION THICKNESS) MILS EPR TYPE MV-105 (VOLTAGE)
KV% INSULATION LEVEL (UL) month-year of manufacture

Dimensions and weights are nominal, subject to industry tolerance.

POWER CABLE
UL TYPE MV-90
5kV & 15kV
VULKENE® /PVC
SHIELDED



Description**Conductors:**

Class B compressed concentric stranded bare copper in accordance with ASTM B8 and ICEA S-66-524, Section 2

Sizes:

*8 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

Mineral filled (noncarbon) Vulkene

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Shield:

An overlapped 5mil annealed copper tape with a minimum overlap of 25%

Jacket

Sunlight-resistant black Polyvinyl Chloride (PVC)

Meets or Exceeds Requirements of:

- ICEA S-66-524
- NEMA WC7
- UL 1072 MV-90

Option:

- Concentric Wire Shield which permits smaller bending radius and tighter conduit or duct bends

Features and Benefits**Temperature Ratings:**

- Normal.....90°C
- Emergency.....130°C
- Short Circuit.....250°C

Vulkene shielded power cables are made with an optimum balance of properties for reliable service and reasonable installation costs.

Meets the Following Flame Test:

- IEEE 383 (70,000 BTU/hr)

Vulkene Offers the Following Features and Benefits:

- Sizes 1/0 AWG and larger are also listed "For CT Use" in accordance with the National Electrical Code.
- Triple tandem extrusion of the strand shield, insulation and insulation shield provides virtually perfect cable core.
- Vulkene insulation, a thermoset, mineral-filled insulation provides excellent resistance to electrochemical treeing, corona, heat, moisture and a wide variety of industrial chemicals.
- PVC jacket provides mechanical protection of the shielding system during installation as well as protection from many industrial chemicals. Sunlight resistant for outdoor use.

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.

Applications

Suitable for use in wet or dry locations when installed in accordance with the NEC.

For connection of primary power apparatus such as power transformers, switchgear and motor control centers. All sizes can be installed in conduit, duct, can be directly buried in the earth, can be installed aerially supported by a messenger and can be used as a component of interlocked armor cables. Meets requirements of NEC Articles 300 and 710.

National Electrical Code:

AmpacitiesArticle 310-15
Wiring Methods.....Article 300 & 710
Cable TraysArticle 318
Grounding SizesArticle 250-95

Medium Voltage

Cable Type MVArticle 326

VULKENE®/PVC POWER CABLE - UL TYPE MV-90 5kV VULKENE® 5kV 100%

BICC Part Number	Bare Compressed Copper Conductor		Extruded Strand Shield		Vulkene Insulation		Extruded Insulation Shield		5Mil Copper Tape	Jacket		Net Weight (lb./ (1000 ft.))
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
68148.010800	8 AWG 7/.0486	0.145	.015	0.18	.090	0.37	.030	0.43	0.55	.045	0.55	210
68148.010600	6 AWG 7/.0612	0.183	.015	0.22	.090	0.40	.030	0.47	0.62	.060	0.62	275
68148.010400	4 AWG 7/.0772	0.231	.015	0.27	.090	0.45	.030	0.52	0.67	.060	0.67	345
68148.010200	2 AWG 7/.0974	0.291	.015	0.33	.090	0.51	.030	0.58	0.73	.060	0.73	450
68148.010100	1/0 AWG 19/.0745	0.365	.015	0.40	.090	0.59	.030	0.66	0.81	.060	0.81	620
68148.015200	2/0 AWG 19/.0837	0.410	.015	0.45	.090	0.63	.030	0.70	0.86	.060	0.86	715
68148.015400	4/0 AWG 19/.1055	0.517	.015	0.55	.090	0.74	.030	0.81	1.01	.080	1.01	1050
68148.016000	250kcmil 37/.0822	0.564	.020	0.61	.090	0.80	.030	0.87	1.07	.080	1.07	1210
68148.016200	350kcmil 37/.0973	0.667	.020	0.72	.090	0.91	.030	0.98	1.18	.080	1.18	1570
68148.016500	500kcmil 37/.1162	0.797	.020	0.85	.090	1.04	.040	1.13	1.33	.080	1.33	2140
68148.017000	750kcmil 61/.1109	0.980	.025	1.04	.090	1.24	.040	1.33	1.54	.080	1.54	3015
68148.017500	1000kcmil 61/.1280	1.130	.025	1.19	.090	1.39	.040	1.49	1.69	.080	1.69	3870

VULKENE®/PVC POWER CABLE - UL TYPE MV-90 15kV VULKENE® 15kV 100%

BICC Part Number	Bare Compressed Copper Conductor		Extruded Strand Shield		Vulkene Insulation		Extruded Insulation Shield		5Mil Copper Tape	Jacket		Net Weight (lb./ (1000 ft.))
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
68147.020200	2 AWG 7/.0974	0.291	.015	0.33	.175	0.68	.030	0.75	0.77	.080	0.95	620
68147.020100	1/0 AWG 19/.0745	0.365	.015	0.40	.175	0.76	.030	0.83	0.87	.080	1.03	790
68147.025200	2/0 AWG 19/.0837	0.410	.015	0.45	.175	0.81	.030	0.88	0.89	.080	1.07	905
68147.025400	4/0 AWG 19/.1055	0.517	.015	0.55	.175	0.92	.030	0.99	1.00	.080	1.19	1225
68147.026000	250kcmil 37/.0822	0.564	.020	0.61	.175	0.97	.030	1.05	1.06	.080	1.25	1340
68147.026200	350kcmil 37/.0973	0.667	.020	0.72	.175	1.08	.040	1.17	1.19	.080	1.37	1795
68147.026500	500kcmil 37/.1162	0.797	.020	0.85	.175	1.21	.040	1.31	1.32	.080	1.51	2360
68147.027000	750kcmil 61/.1109	0.980	.025	1.04	.175	1.41	.040	1.51	1.52	.080	1.71	3232
68147.027500	1000kcmil 61/.1280	1.130	.025	1.19	.175	1.56	.050	1.68	1.70	.110	1.95	4255

VULKENE®/PVC POWER CABLE - UL TYPE MV-90 15kV VULKENE® 15kV 133%

BICC Part Number	Bare Compressed Copper Conductor		Extruded Strand Shield		Vulkene Insulation		Extruded Insulation Shield		5Mil Copper Tape	Jacket		Net Weight (lb./ (1000 ft.))
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)		Thickness (inches)	Diameter (inches)	
68146.020200	2 AWG 7/.0974	0.291	.015	0.33	.220	0.78	.030	0.85	0.86	.080	1.04	725
68146.020100	1 AWG 19/.0664	0.325	.015	0.36	.220	0.81	.030	0.88	0.89	.080	1.08	780
68146.025100	1/0 AWG 19/.0745	0.365	.015	0.40	.220	0.85	.030	0.92	0.94	.080	1.12	900
68146.025200	2/0 AWG 19/.0837	0.410	.015	0.45	.220	0.90	.030	0.97	0.98	.080	1.17	1000
68146.025400	4/0 AWG 19/.1055	0.517	.015	0.55	.220	1.01	.030	1.08	1.09	.080	1.28	1325
68146.026000	250kcmil 37/.0822	0.564	.020	0.61	.220	1.07	.040	1.16	1.17	.080	1.36	1515
68146.026200	350kcmil 37/.0973	0.667	.020	0.72	.220	1.17	.040	1.27	1.28	.080	1.47	1910
68146.026500	500kcmil 37/.1162	0.797	.020	0.85	.220	1.30	.040	1.40	1.41	.080	1.60	2485
68146.027000	750kcmil 61/.1109	0.980	.025	1.04	.220	1.50	.040	1.60	1.61	.110	1.87	3505
68146.027500	1000kcmil 61/.1280	1.130	.025	1.19	.220	1.65	.040	1.78	1.79	.110	2.02	4420

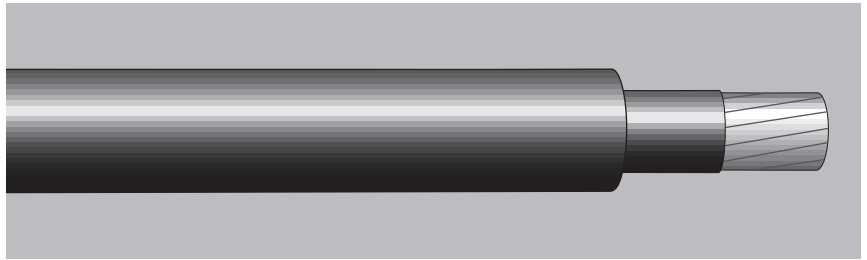
Print: BICC CABLES VULKENE SI-58224 SIZE (AWG OR KCMIL) (VOLTAGE) KV% INSULATION LEVEL TYPE MV-90 SUN RES FOR CT USE (UL)
month/year of manufacture

NOTE: A) Sizes smaller than 1/0 do not include "FOR CT USE"
B) The NEC lightning bolt symbol is on all Vulkene shielded constructions.

Dimensions and weights are nominal, subject to industry tolerance.

SPECIFICATION #VULKENE-P-0001

POWER CABLE UL TYPE MV-90 5 kV VULKENE® NON-SHIELDED



Description

Conductors:

Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA S-66-524, Section 2

Sizes:

*8 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded thermoset semi-conducting stress control layer over conductor

Insulation:

Mineral filled (noncarbon) Vulkene

Meets or exceeds requirements of:

- ICEA S-66-524
- NEMA WC7
- UL 1072 MV-90

Features and Benefits

Temperature Ratings:

- Normal.....90°C
- Emergency.....130°C
- Short Circuit.....250°C

Ozone-resistant, physically tough, cable requiring no jacket. Insulation has excellent electrical and thermal properties combined with outstanding resistance to moisture and chemicals.

Simplification of splicing and terminating by elimination of need to handle cable shield.

Underwriters' Laboratory listed for dry locations.

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.

Applications

Where NEC requirements apply, cable is suitable for use in dry locations at conductor temperatures not exceeding 90°C. All sizes may be installed in conduit, duct, or in properly supported aerial installations. Listed by Underwriters' Laboratories, Inc. as Type MV-90 Dry. Meets requirements of NEC Articles 326 and 310.

Where NEC requirements do not apply, cable is suitable for three phase, triplexed circuits in indoor dry locations installed in metallic conduit or trough above grade, underground ducts and conduits and other moist locations, and aerially, preassembled or field spun with metallic binder. For all applications, ICEA requires use of shielded cable for voltages of 2001 volts and above except as covered by ICEA S-66-524, Part 7, Section 7.9.

National Electrical Code:

AmpacitiesArticle 310-15
Bending RadiusArticle 300-34
Wiring Methods.....Article 300 & 710
Grounding SizesArticle 250-95
Cable Trays.....Article 318-13
Type MVArticle 326

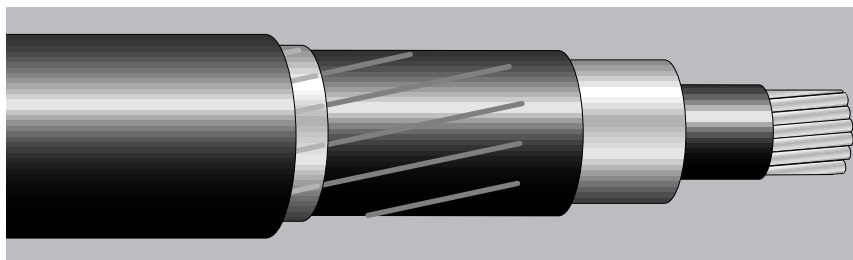
VULKENE® NON-SHIELDED POWER CABLE - UL TYPE MV-90 5KV VULKENE NON-SHIELDED

BICC Part Number	Bare Compressed Concentric Conductor		Extruded Strand Shield		Vulkene Insulation		Net Weight (lbs/1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia. (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	
17920.210800	8 AWG 7/.0486	0.145	0.015	0.18	0.125	0.44	200
17920.210600	6 AWG 7/.0612	0.183	0.015	0.22	0.125	0.47	250
17920.210400	4 AWG 7/.0772	0.231	0.015	0.27	0.125	0.52	315
17920.210200	2 AWG 7/.0974	0.291	0.015	0.33	0.125	0.58	415
17920.210100	1 AWG 7/.0664	0.325	0.015	0.36	0.125	0.62	510
17920.215100	1/0 AWG 19/.0745	0.365	0.015	0.40	0.125	0.66	565
17920.215200	2/0 AWG 19/.0837	0.410	0.015	0.45	0.125	0.71	670
17920.215300	3/0 AWG 19/.0940	0.461	0.015	0.50	0.110	0.73	640
17920.215400	4/0 AWG 19/.1055	0.517	0.015	0.55	0.125	0.81	990
17920.216000	250kcmil 37/.0822	0.564	0.015	0.60	0.140	0.89	1180
17920.216200	350kcmil 37/.0973	0.667	0.015	0.71	0.140	1.00	1545
17920.216500	500kcmil 37/.1162	0.797	0.015	0.84	0.140	1.13	2080
17920.217000	750kcmil 61/.1109	0.978	0.015	1.02	0.155	1.35	3025
17920.217500	1000kcmil 61/.1280	1.129	0.015	1.17	0.155	1.50	3420
Print: BICC CABLES VULKENE SI-58065 SIZE (AWG OR KCMIL) 5KV NONSHIELDED TYPE MV-90 DRY (UL) month and year of manufacture							

Dimensions and weights are nominal, subject to industry tolerance.

SPECIFICATION #XLPE/PVC-P-0001

POWER CABLE UL TYPE MV-90 5kV & 15kV XLPE/PVC COPPER WIRE SHIELD



Description

Conductors:

Class B compressed concentric stranded bare copper in accordance with ASTM B3 and B8 and ICEA S-66-524 (NEMA WC7), Section 2

Sizes:

#8 AWG through 1000 kcmil

Extruded Strand Shield (ESS):

Extruded semi-conducting thermoset stress control layer over conductor

Insulation:

Crosslinked Polyethylene (XLPE)

Extruded Insulation Shield (EIS):

Thermoset semi-conducting polymeric layer free stripping from insulation

Metallic Sheath:

A concentric serve of #24 AWG annealed solid bar copper wires over which shall be applied a lapped non-metallic tape.

Jacket

Sunlight-resistant black Polyvinyl Chloride (PVC)

Manufactured and Tested in Accordance with the Latest

Revisions of:

- ICEA S-66-524
- NEMA WC7
- AEIC CS 5
- UL 1072 MV-90

Options:

- Tape shielded
- Longitudinally corrugated shield
- Triplexed
- Armored
- Multiconductor/jacketed

Features and Benefits

Temperature Ratings:

- Normal.....90°C
- Emergency.....130°C
- Short Circuit.....250°C

UL listed as Type MV-90 (100% or 133% insulation level) for use in accordance with the National Electrical Code. Meets AEIC CS 5. Upon request, sizes 1/0 AWG and larger may be labeled "Sunlight Resistant For CT Use."

XLPE/PVC Copper Wire Shield Cable Offers the Following Features and Benefits:

- Triple tandem extrusion of the strand shield, insulation and insulation shield provides virtually perfect cable core.
- Excellent resistance to electrochemical treeing, corona, heat, moisture and a wide variety of industrial chemicals.
- PVC jacket provides mechanical protection of the shielding system during installation as well as protection from many industrial chemicals. Sunlight resistant for outdoor use.

Meets the Following Flame Test:

- IEEE 383 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.

Applications

Suitable for use in wet or dry locations when installed in accordance with the NEC. For use in aerial, direct burial, conduit, open tray, and underground duct installations, where the environment is relatively dry and cost effectiveness is a factor.

National Electrical Code:

AmpacitiesArticle 310-15
Wiring Methods.....Article 300 & 710
Cable TraysArticle 318
Grounding SizesArticle 250-95

Medium Voltage

Cable Type MVArticle 326

XLPE/PVC POWER CABLE

UL TYPE MV-90 5kV-35kV XLPE/PVC COPPER WIRE SHIELD 5kV 100%

BICC Cables Part Number	Bare Compact Copper Conductor		Strand Shield		Insulation		Extruded Insulation Shield		Wire Shield	Tape	PVC Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Diameter (inches)	Diameter (inches)	Thickness (inches)	Diameter (lb./M ft.)	
17241.010800	8 AWG 7/.0486	0.145	.015	0.18	.090	0.37	.030	0.43	0.47	0.50	.045	0.59	185
17241.010600	6 AWG 7/.0612	0.183	.015	0.22	.090	0.40	.030	0.47	0.51	0.53	.060	0.66	250
17241.010400	4 AWG 7/.0772	0.231	.015	0.27	.090	0.45	.030	0.52	0.56	0.58	.060	0.70	305
17241.010200	2 AWG 7/.0974	0.291	.015	0.33	.090	0.51	.030	0.58	0.62	0.64	.060	0.77	420
17241.015100	1/0 AWG 19/.0745	0.365	.015	0.40	.090	0.59	.030	0.66	0.70	0.72	.060	0.85	580
17241.015200	2/0 AWG 19/.0837	0.410	.015	0.45	.090	0.63	.030	0.70	0.74	0.77	.060	0.90	670
17241.015400	4/0 AWG 19/.1055	0.517	.015	0.55	.090	0.74	.030	0.81	0.85	0.88	.080	1.05	1000
17241.016000	250kcmil 37/.0822	0.564	.020	0.61	.090	0.80	.030	0.87	0.91	0.94	.080	1.11	1155
17241.016200	350kcmil 37/.0973	0.667	.020	0.72	.090	0.91	.030	0.98	1.02	1.04	.080	1.21	1505
17241.016500	500kcmil 37/.1162	0.797	.020	0.85	.090	1.04	.040	1.13	1.17	1.20	.080	1.37	2060
17241.017000	750kcmil 61/.1109	0.980	.025	1.04	.090	1.24	.040	1.33	1.37	1.35	.080	1.52	3010
17241.017500	1000kcmil 61/.1280	1.130	.025	1.19	.090	1.39	.040	1.49	1.53	1.50	.080	1.67	3860

XLPE/PVC POWER CABLE

UL TYPE MV-90 5kV-35kV XLPE/PVC COPPER WIRE SHIELD 15kV 100%

BICC Cables Part Number	Bare Compact Copper Conductor		Strand Shield		Insulation		Extruded Insulation Shield		Wire Shield	Tape	PVC Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Diameter (inches)	Diameter (inches)	Thickness (inches)	Diameter (lb./M ft.)	
17244.010200	2 AWG 7/.0974	0.291	.015	0.33	.175	0.68	.030	0.75	0.79	0.82	.080	0.99	575
17244.015100	1/0 AWG 19/.0745	0.365	.015	0.40	.175	0.76	.030	0.83	0.87	0.89	.080	1.06	745
17244.015200	2/0 AWG 19/.0837	0.410	.015	0.45	.175	0.81	.030	0.88	0.92	0.94	.080	1.11	850
17244.015400	4/0 AWG 19/.1055	0.517	.015	0.55	.175	0.92	.030	0.99	1.02	1.05	.080	1.22	1155
17244.016000	250kcmil 37/.0822	0.564	.020	0.61	.175	0.97	.030	1.05	1.09	1.11	.080	1.28	1275
17244.016200	350kcmil 37/.0973	0.667	.020	0.72	.175	1.08	.040	1.17	1.21	1.24	.080	1.41	1710
17244.016500	500kcmil 37/.1162	0.797	.020	0.85	.175	1.21	.040	1.31	1.35	1.37	.080	1.54	2270
17244.017000	750kcmil 61/.1109	0.980	.025	1.04	.175	1.41	.040	1.51	1.55	1.52	.080	1.69	3232
17244.017500	1000kcmil 61/.1280	1.130	.025	1.19	.175	1.56	.050	1.68	1.72	1.70	.110	1.93	4255

XLPE/PVC POWER CABLE

UL TYPE MV-90 5kV-35kV XLPE/PVC COPPER WIRE SHIELD 15kV 133%

BICC Cables Part Number	Bare Compact Copper Conductor		Strand Shield		Insulation		Extruded Insulation Shield		Wire Shield	Tape	PVC Jacket		Net Weight (lbs/ 1000 ft.)
	AWG or kcmil and Stranding	Conductor Dia.(inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Thickness (inches)	Diameter (inches)	Diameter (inches)	Diameter (inches)	Thickness (inches)	Diameter (lb./M ft.)	
17245.010200	2 AWG 7/.0974	0.291	.015	0.33	.220	0.78	.030	0.85	0.89	0.81	.080	1.08	670
17245.010100	1 AWG 19/.0664	0.325	.015	0.36	.220	0.81	.030	0.88	0.92	0.95	.080	1.11	720
17245.015100	1/0 AWG 19/.0745	0.365	.015	0.40	.220	0.85	.030	0.92	0.96	0.99	.080	1.16	835
17245.015200	2/0 AWG 19/.0837	0.410	.015	0.45	.220	0.90	.030	0.97	1.01	1.03	.080	1.20	930
17245.015400	4/0 AWG 19/.1055	0.517	.015	0.55	.220	1.01	.030	1.08	1.12	1.14	.080	1.31	1250
17245.016000	250kcmil 37/.0822	0.564	.020	0.61	.220	1.07	.040	1.16	1.20	1.22	.080	1.39	1430
17245.016200	350kcmil 37/.0973	0.667	.020	0.72	.220	1.17	.040	1.27	1.31	1.33	.080	1.50	1815
17245.016500	500kcmil 37/.1162	0.797	.020	0.85	.220	1.30	.040	1.40	1.44	1.47	.080	1.64	2380
17245.017000	750kcmil 61/.1109	0.980	.025	1.04	.220	1.50	.040	1.60	1.64	1.61	.110	1.85	3490
17245.017500	1000kcmil 61/.1280	1.130	.025	1.19	.220	1.65	.040	1.78	1.82	1.79	.110	2.02	4420

Print: BICC CABLES SIZE (AWG OR KCMIL) CU (INSULATION THICKNESS) MILS XLPE (VOLTAGE) KV% INSULATION LEVEL TYPE MV-90 (UL) SUN
RES month/year of manufacture

NOTE: The NEC lightning bolt symbol is on all Vulkene shielded constructions.

Dimensions and weights are nominal, subject to industry tolerance.